APPENDIX.

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The following observations on Cephalodiscus were made in consequence of a letter received from Professor M'Intosh, calling my attention to certain remarkable features in the anatomy of the genus. I am very greatly indebted to Professor M'Intosh for his courtesy in giving me specimens of Cephalodiscus, and most of all for his kindly expressed desire that I should publish my conclusions as an appendix to his own monograph. Time has not permitted of my seeing the proofs of this monograph, and I must

therefore claim indulgence for any descriptions which would otherwise appear unnecessary repetitions of the results of Professor M'Intosh himself.

In examining sections of Cephalodiscus, I have been struck with the existence of various organs which appear to me to point to the conclusion that this remarkable genus is a near ally of Balanoglossus. This very unexpected result will be understood by comparing the following woodcuts (with the remarks which accompany them) with Bateson's papers on the anatomy and development of Balanoglossus.

Fig. 1 represents a longitudinal, right and left, section of a young bud of *Cephalodiscus*. The resemblance between this section and Bateson's diagrams

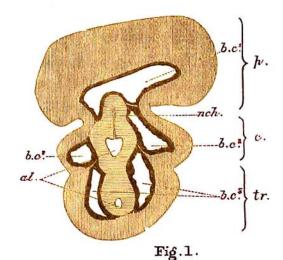


Fig. 1.—p., proboscis; c., collar; tr., trunk; al., alimentary canal; nch., notochord; b.c.¹, body-cavity of proboscis; b.c.², body-cavity of collar; b.c.³, body-cavity of trunk.

of the larvæ of $Balanoglossus^2$ is, in all essential details, exact. The body of the young Cephalodiscus is divided, by means of two transverse grooves, into three well-marked regions. Of these the anterior (p.) may be compared to the proboscis of Balanoglossus; the middle division (c.) to the collar of the same animal, and the posterior division (tr.) to the trunk or body. It will further be noted that the proboscis is pro-

¹ Quart. Journ. Micr. Sci., vols. xxiv., xxv., xxvi.

² Quart. Journ. Micr. Sci., vol. xxvi., pl. xxxiii. fig. 7.